Table A.2.24 North Field AOC 9B Summary of Boring Log and Analytical Data

Boring/ Date/ Report	Total Depth of Boring	Depth to Water[1]	Lithologic Description[2] (Observation Notes)	Maximum PID Response, ppm_v (Depth)	Sample Type[3]	Sample ID (Depth)	Analyses[4]	COC Concentrations Greater Than Delineation Criteria
S0809 8/1/02 Full RFI AOC 9B	15	9	Fill: 0-9: (black stained at 3.5-6; NAPL watery like at 4-5) Peat: 9-12 Clay: 12-15	180 (3.5-4)	P, U, F	S0809A4 (1.5-2)	V, S, M	Iron: 32400 mg/kg
					P, U, F	S0809B4 (3.5-4)	V, S, M	None
					P, S, N	S0809H2 (14.5-15)	V, S, M	Iron: 28000 mg/kg
S0778 7/16/02 Full RFI SWMU 22	6	--	Fill: 0-3 Clay, sand and silt: 3-6	1.4 (2.5-3; 3.5-4)	O, U, F	S0778A4 (1.5-2)	V,S, Pb, TOL	None
					O, U, F	S0778B2 (2.5-3)	V,S,Pb, TOL	None
					O, U, N	S0778C3 (5-5.5)	V,S,Pb, TOL	None
S0777 7/16/02 Full RFI SWMU 22	9	6.5	Fill: 0-1.5 Clay, gravel and sand: 1.5-6.5	10 (0.5-1)	O, U, F	S0777A2 (0.5-1)	S, Pb, TOL	None
					O, U, F	S0777A4 (1.5-2)	V	None
					O, U, N	S0777B2 (2.5-3)	V, S, Pb, TOL, SPLP lead	None
			Sand: 6.5-9		O, U, N	S0777C3 (5-5.5)	V, S, Pb, TOL	None
S0776/ MW120 7/16/02 Full RFI SWMU 22	12	6	Fill: 0-6.5 Peat: 6.5-8 Sand: 8-12	56 (0-0.5)	O, U, F	S0776A3 (1-1.5)	V, S, Pb, TOL	None
					O, U, F	S0776 (1-3)	Phys. Char.	
					O, U, F	S0776C4 (5.5-6)	V, S, Pb, TOL, SPLP Pb	None

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					O, S, N	S0776D4 (7.5-8)	V, S, Pb, TOL	TOL: 7.1 mg/kg
					Water	MW120 11/27/02	V, S, M, water quality	Thallium: 14J ug/L
NFTP1 10/23/01 Corrective Action Projects	12	4	Fill: 0-8.5: (fly ash) Meadow Mat: 8.5-10 Clay: 10-12	162 (2-4)	None			
H0457 10/19/99 2nd OWSS (NF2)	12	1	Fill: 0-8: (flyash, black staining, hydrocarbon odor at 1-4; sheen on water at 3-4) Clay: 8-12 (hydrocarbon odor, staining on outside of core)	273 (2-3)	Water	H0457	V, S, M	**Benzene: 39 ug/L** Xylenes: 1500 ug/L Lead: 16.4 ug/L
H0438 10/11/99 2nd OWSS (NF3)	12	1	Fill: 0-7: (some catalyst beads at 1-4) Clay with Sands: 7-12	25 (11-12)	Water	H0438	V, S, M	Antimony: 22.4 ug/L Arsenic: 10.8 ug/L Lead: 111 ug/L
H0316 8/16/99 2nd OWSS (NF2)	12	5	Fill: 0-7 (fly ash, black staining and odors at 3-4; globules of black liquid, odor at 6-7) Clay with Sands: 7-12	1747 (3-4)	Water	H0316	V, S, M	**Benzene: 250D ug/L** Lead: 41.4 ug/L
H0310 8/12/99 2nd OWSS (NF2)	12	3	Fill: 0-10: (fly ash, catalyst beads at 1-6; stained at 2-4; black liquid with hydrocarbon odor at 1-4; black staining and hydrocarbon odor at 6-10) Meadow Mat: 10-12 (H2S odor)	131 (3)	Water	H0310	V, S, M	Lead: 12.2 ug/L
HP0119 9/18/97 1st Groundwater SWMU 22	8	8.7	See SB0041	367	Water	HP0119A	V, S, Pb	Benzenethiol: 600 ug/l **Benzene: 37 ug/l** Xylenes: 330 ug/l 2,4-Dimethylphenol: 140 ug/l Lead: 158 ug/l

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SB0041 10/17/95 1st Soils SWMU 22	5	3.0	Fill: 0-5 (strong petroleum odor, black staining at 1.75-5)	584 2-4)	O, U, F	SB0041SB (2-4)	V, S, Pb, TEL	Benzenethiol: 40E mg/kg 2,4-Dimethylphenol: 12E mg/kg Benzo(a)anthracene: 1.4 mg/kg **Benzo(a)pyrene: 1.9 mg/kg**
U022006 10/17/95 1st Soils SWMU 22	10	2.5	Fill: 0-9: (dark staining at 0.15-1.85) Meadow mat: 9.85-10	0	None			
U022005 10/16/95 1st Soils SWMU 22	4	NE	Fill: 0-2.8: Clay: 2.8-3.75 Meadow mat: 3.75-4	3.2 (0-2)	None			
U022004 10/17/95 1st Soils SWMU 22	4	NE	Fill: 0-2.8: (strong petroleum odor at 0.25-2.25, strong petroleum odor, black staining at 2.25-3) Meadow mat: 3-4	25 (0-2)	None			
U022003 10/16/95 1st Soils SWMU 22	4	2	Fill: 0-3.5: (petroleum odor at 0.25-3.5) Meadow mat: 3.5-4	153 (2-4)	None			
U022002 10/17/95 1st Soils SWMU 22	10	3	Fill: 0-9.5: (organic odor at 2.65-4) Meadow mat: 9.5-10	0	None			
U022001 10/16/95 1st Soils SWMU 22	4	NE	Fill: 0-2.8: (black staining at 0.25-0.75) Meadow mat: 3.75-4	30 (0-2)	None			
NF11 7/7/92 AOC 9B	12	4	Fill: 0-6 (oil stained at 2-2.5) Peat and clay: 6-12-	30 (3-3.5)	Water	NF11 (1/13/03)	V, S, M, water quality	**Benzene: 120 ug/L**

NOTES:

Benzene and benzo(a)pyrene are highlighted in bold because they are indicator constituents of concern (COCs)

Shaded rows indicate samples collected from nearby SWMUs/AOCs

ppm_v = parts per million (volume basis)

All depths referenced on this summary table are in feet below the ground surface.

PID = Photoionization detector.

ID = Identifier.

mg/kg = milligrams per kilogram (equivalent to parts per million).

µg/L = micrograms per liter (equivalent to parts per million).

[1]Depth to water as observed during borehole advancement.

[2]"Fill" encountered within the completed borings was characteristically described as an asphalt layer (typical) underlain by a heterogeneous gravel to clay mixture of unconsolidated materials, ranging in color from tan to gray with occasional construction debris (e.g., brick) present. In some locations, the fill material is further characterized by containing a slag or beaded material, in which case it is noted within the table. Also noted on the table are any other olfactory or visual observations that indicate potential petroleum-type impacts within the fill unit were observed.

[3]P – property boundary, O – on-site, U – unsaturated, S – saturated, F – fill, N – native. "None" indicates that no sample was collected.

[4]V – VOCs, S – SVOCs, M – metals, Pb – lead, TOL – total organic lead, TEL – tetraethyl lead, TPH – Total Petroleum Hydrocarbons; SPLP– Synthetic Precipitation Leaching Procedure; -Phys. Char.--physical characteristics.